NC/QC/YPD-W-4/2018-19/AL-C1 Date: 19-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : CHETTINAD
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**151min**	Shall not be less than 30 min
2	Final setting time	**242 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.87 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.25 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore
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NC/QC/YPD-W-4/2018-19/AL-PCC1 Date: 19-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.05	0 -20	30- 70
10mm	21.45	0 -5	10- 35
4.75mm	3.25	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.05	60-95	75-100	85-100	
01.18	76.60	30-70	55-90	75-100	
600.mic	47.80	15-34	35-59	60-79	
300.mic	23.00	5-20	8-30	12-40	
150.mic	6.50	0-10	0-10	0-10	

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EMAIL:newzen576@gmail.com

NC/QC/YPD-W-4/2018-19/AL-C2 **Date: 20-02-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : CHETTINAD
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**239 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.80 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.12 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.32 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NCQC\YPD-W-4\2018-19\AL-PCC2 **Date: 20-02-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.10	0 -20	30- 70
10mm	22.60	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.65	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.10	60-95	75-100	85-100	
01.18	76.25	30-70	55-90	75-100	
600.mic	48.35	15-34	35-59	60-79	
300.mic	23.20	5-20	8-30	12-40	
150.mic	7.60	0-10	0-10	0-10	

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NC/QC/YPD-W-4/2018-19/AL-C3

Date: 22-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : CHETTINAD
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**146 min**	Shall not be less than 30 min
2	Final setting time	**236min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.81 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.22 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD-W-4/2018-19/AL--FA1 **Date: 22-02-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.05**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.15**	60-95	75-100	85-100	
01.18	**74.90**	30-70	55-90	75-100	
600. mic	**41.10**	15.34	35-59	60-79	
300.mic	**22.65**	5-20	8-30	12-40	
150.mic	**6.90**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.03 %**	-----
2	Silt Content	----	**0.56 %**	Not more than 8%
3	Specific Gravity	----	**2.58**	-------

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NC/QC/YPD-W-4/2018-19/AL-CA1 **Date: 22-02-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.10**	85-100	90 - 100
10 mm	**46.25**	0 - 20	25 - 55
4.75 mm	**2.85**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	**Requirements** as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**24.32%**	Not to exceed 25 %
2.	Crushing value	**27.03 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD-W-4/2018-19/AL-S1 **Date: 22-02-2019**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8 and 10 mm **TMT Steel.**

{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.393**	0.363	**0.619**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**542.0**	500.0	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.50**	16.00	**19.40**	16.00
06	Ultimate Tensile Strength **N/mm^2**	**637.0**	565.0	**642.0**	565.0

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NC/QC/YPD-W-4/2018-19/AL-CB1 **Date: 05-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-02-19	05-03-19	08	22500	365	16.22	**16.44**
	002	‘’	“	‘’	“	375	16.67	
	003	‘’	“	‘’	“	370	16.44	

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NC/QC/YPD-W-4/2018-19/AL-CB2 Date: 05-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	05-03-19	07	22500	355	15.78	**16.07**
	002	‘’	“	‘’	“	360	16.00	
	003	‘’	“	‘’	“	370	16.44	

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NC/QC/YPD-W-4/2018-19/AL-CB3 **Date: 05-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	05-03-19	07	22500	375	16.67	**16.74**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

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NC/QC/YPD-W-4/2018-19/AL-CB4 Date: 07-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	07-03-19	08	22500	385	17.11	**16.59**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	365	16.22	

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NC/QC/YPD-W-4/2018-19/AL-CB5 **Date: 08-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-03-19	08-03-19	07	22500	370	16.44	**16.22**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	360	16.00	

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NC/QC/YPD-W-4/2018-19/AL-CB1A Date: 25-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-02-19	25-03-19	28	22500	505	22.44	**22.81**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	510	22.67	

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NC/QC/YPD-W-4/2018-19/AL-CB2A **Date: 26-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	26-03-19	28	22500	495	22.00	**22.37**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	495	22.00	

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